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MEMORANDUM

TO : **The Assistant Secretary**
Policy, Planning and Foreign Assisted and Special Projects
and FMB Director, In Concurrent Capacity

The Directors
EMB, MGB, BMB, LMB, ERDB
Policy and Planning Service

All Regional Executive Directors

FROM : **The Undersecretary**
Policy, Planning and International Affairs

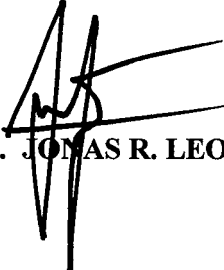
SUBJECT : **WEATHER FORECAST FOR SOUTHEAST ASIA IN
APRIL TO JUNE 2021**

DATE : 26 April 2021

This refers to the email dated 21 April 2021 sent by Aida Hayati Mohd Hassan, Peatland Programme - Global Environment Centre (Malaysia), forwarding a Seasonal Forecast for the ASEAN Region for April - June 2021, which are mainly derived from information from the ASEAN Specialised Meteorological Centre (ASMC) and APEC Climate Center (APCC). Similar weather forecast and outlook is also available on ASEAN Specialised Meteorological Centre website: (<http://asmc.asean.org/home/>).

This information is useful for reference in undertaking necessary precaution actions and preventive measures for fire risk.

For your information and reference.


ATTY. JONAS R. LEONES

MEMO NO. 2021 - 316

Let's Go Green!!!

Weather forecast for Southeast Asia in April-June 2021

Aida Hayati Mohd Hassan <aidahayati@gec.org.my>

Wed, Apr 21, 2021 at 1:47 PM

Reply-To: aidahayati@gec.org.my

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Dear partners,

We would like to share with you a Seasonal Forecast for the ASEAN Region for April - June 2021.

The forecast are mainly derived from information from the ASEAN Specialised Meteorological Centre (ASMC) and APEC Climate Center (APCC).

Similar weather forecast and outlook is also available on ASEAN Specialised Meteorological Centre website: (<http://asmc.asean.org/home/>).

Other relevant links are listed in the attached papers too.

We hope this information is useful for reference in undertaking necessary precaution actions and preventive measures for fire risk.

Thank you.

Best regards;

Aida Hayati

Aida Hayati Mohd Hassan

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 **weather_forecast_south_asia_anomaly_april-june_2021.pdf**
1716K

SEASONAL WEATHER AND FIRE RISK FORECAST FOR ASEAN REGION APRIL – JUNE 2021

The ASEAN Specialised Meteorological Centre (ASMC¹) suggests La Niña conditions are present over the tropical Pacific Ocean. From May 2021 onwards, there is a wide spread possibility of transition from moderate La Niña conditions to ENSO neutral conditions.

The APEC Climate Centre (APCC²) El Niño-Southern Oscillation (ENSO) Alert System suggests “INACTIVE” for April to September 2021. During February 2021, negative sea surface temperature anomalies were observed over the equatorial Pacific. The latest APCC ENSO outlook suggests an around 60% chance of neutral conditions during April – June 2021, which is expected to gradually decrease but remain above 50% through July – September 2021.

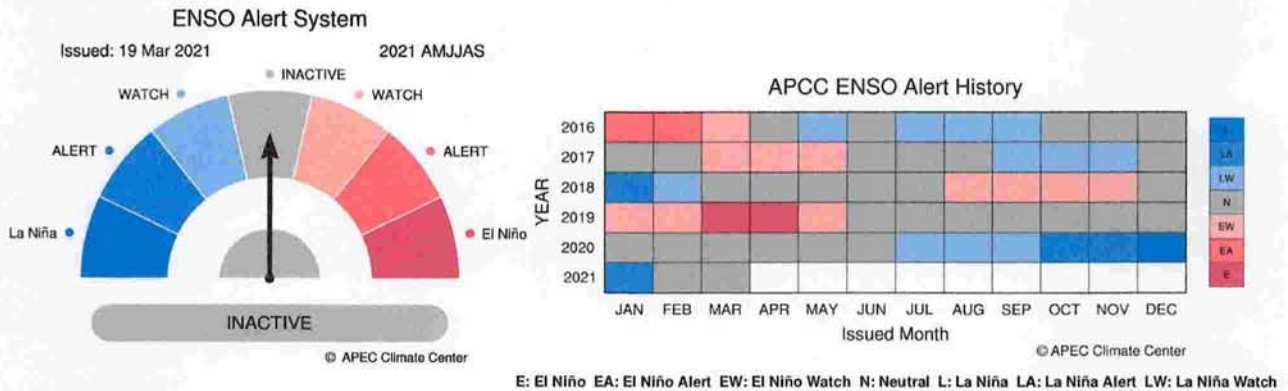
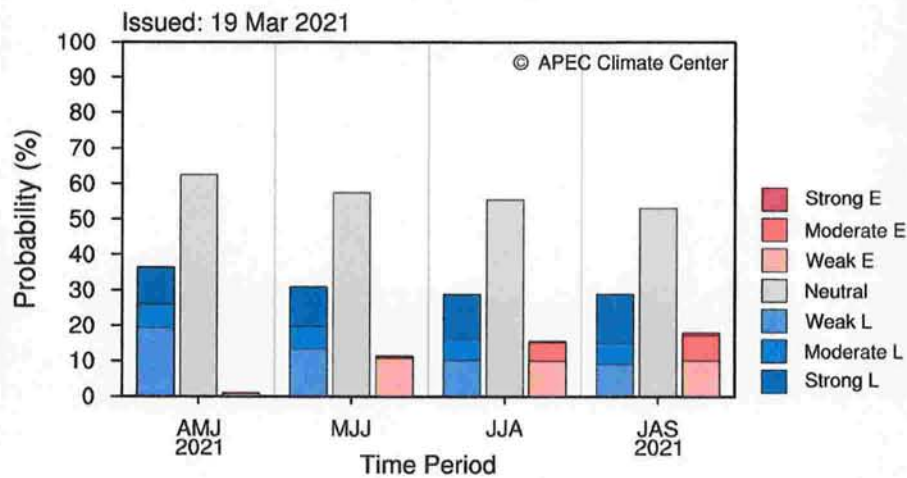


Figure 1(a) ENSO Alert status for April – September 2021; and (b) history of monthly ENSO Alert from 2016 – 2021

Probabilistic ENSO Forecast for 2021 AMJJAS



* ENSO Intensity based on 3M Mean Niño3.4 SST Anomaly (Category Boundaries: +/-1.5, 1.0, 0.5°C)

Figure 2: Predicted monthly mean Niño3.4 index for April – September 2021

¹ Information from ASEAN Specialised Meteorological Centre (<http://asmc.asean.org/home/>)

² Information from APEC Climate Center (<https://www.apcc21.org/main.do?lang=en>)

A transition from Northeast Monsoon to inter-monsoon conditions is likely in April 2021 for the ASEAN region and prevailing winds are expected to be light and variable in direction on most days. An increase in shower activities is expected as the monsoon rain band moves over the equator. The inter-monsoon conditions are expected to persist till May 2021, before a transition to Southwest Monsoon conditions in June 2021.

In the upcoming April – June 2021 period, there are enhanced chances of above normal (wetter) conditions over much of Southeast Asia region especially southern part of Myanmar, central part of Thailand and Philippines. Drier than normal conditions are predicted over parts of Sumatera and the western parts of Borneo Island. However, the condition will ease to near normal by June.

For temperature, Southern ASEAN region particularly Indonesia and Borneo is predicted to continue experiencing above normal (warmer) conditions during April – June 2021. Below normal (cooler) condition is predicted in most of Mekong region especially northern part of Thailand and Lao PDR during April – June 2021. The condition will shift to above normal (warmer) condition for eastern Mekong countries, namely Viet Nam, Cambodia and southern Lao PDR by June.

While normal to above normal rainfall is forecast for much of the Mekong region during April – June 2021, these months are the climatologically dry months for the region. Hence, hotspot activities are expected to remain elevated with a risk of transboundary smoke haze occurrence. As we approach the middle of the year, shower activities are expected to return to the Mekong region as the Inter-monsoon sets in and is followed by the Southwest Monsoon. These shower activities are expected to help keep hotspot activities subdued.

For the southern ASEAN region, below normal rainfall is expected for most parts of Sumatera and Borneo in April – June 2021, increasing the likelihood of isolated hotspot and smoke haze development in those areas. In the months of June – August 2021, the southern ASEAN region is expected to enter its traditional dry season. The resultant prolonged periods of drier conditions can lead to an escalation of hotspot activities and an increased risk of transboundary smoke haze occurrence.

The figures on the following pages show anomalies for precipitation and temperature for ASEAN for April until June 2021 as issued on 21 March 2020 by the APCC. For precipitation, brown colour represents below normal condition and green represent above normal condition. For temperature, blue represents lower than normal condition and red colour indicates above normal condition.

Other information on weather conditions, hotspot, haze and fire danger rating can be found on the following links:

ASEAN Haze Action Online (<http://haze.asean.org/>)

Hotspot and haze information at ASEAN Specialised Meteorological Centre (<http://asmc.asean.org/home/>)

Information on Fire Danger Rating System (FDRS) at Malaysian Meteorological Department (<http://www.met.gov.my/iklim/fdrs/afdrs?lang=en>)

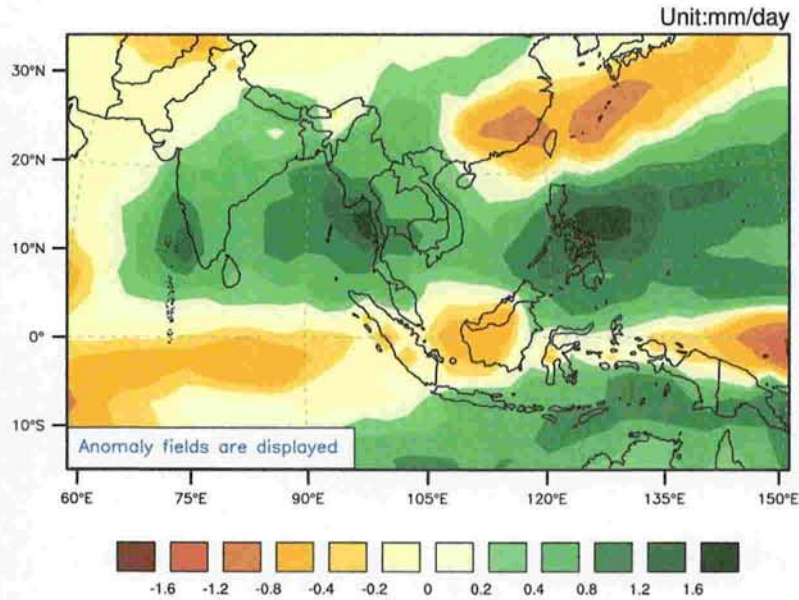
Information by Badan Meteorologi, Klimatologi dan Geofisika of Indonesia on FDRS (<https://www.bmkg.go.id/cuaca/kebakaran-hutan.bmkg>)

Hotspot information (adjustable confidence levels for hotspots) by Lembaga Penerbangan dan Antariksa Nasional (LAPAN) of Indonesia (<http://lowres-catalog.lapan.go.id/monitoring/>)

Information on FDRS for Northern Southeast Asia by Department of National Parks, Wildlife and Plant Conservation of Thailand (<http://www2.dnp.go.th/gis/FDRS/FDRS.php>)

Subscription to ASEAN Fire Alert Tool (<https://www.aseanfirealert.org/>) to manage land parcels of which information on FDRS and hotspot will be delivered daily to smartphone of subscribers.

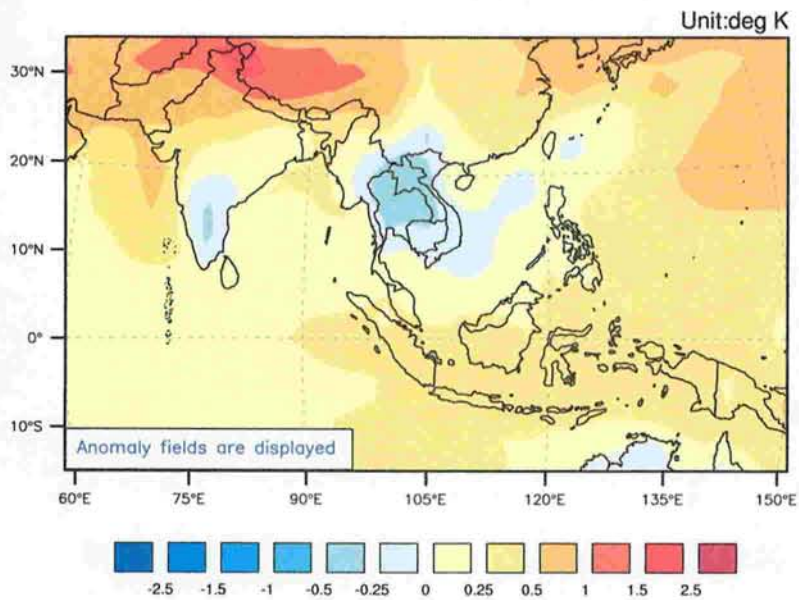
Precipitation for April-June 2021



Issued: 19 Mar, 2021

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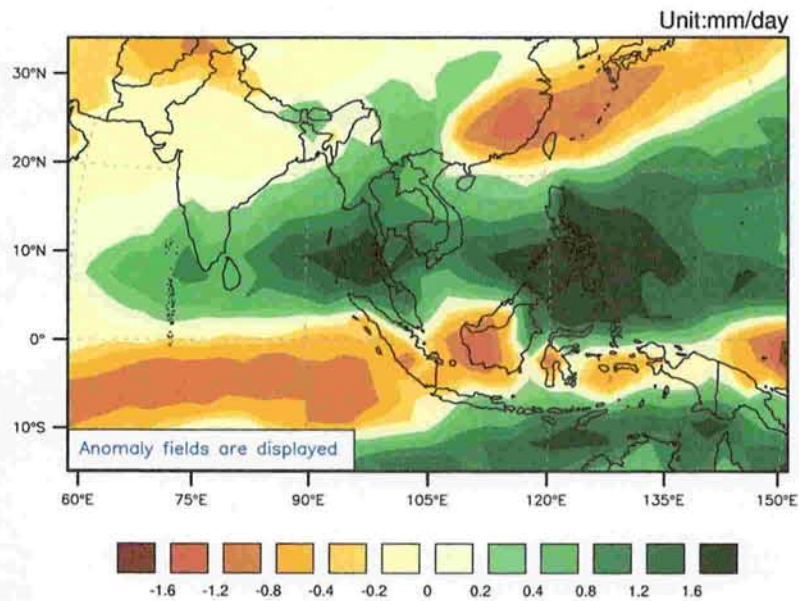
Temperature at 2m for April-June 2021



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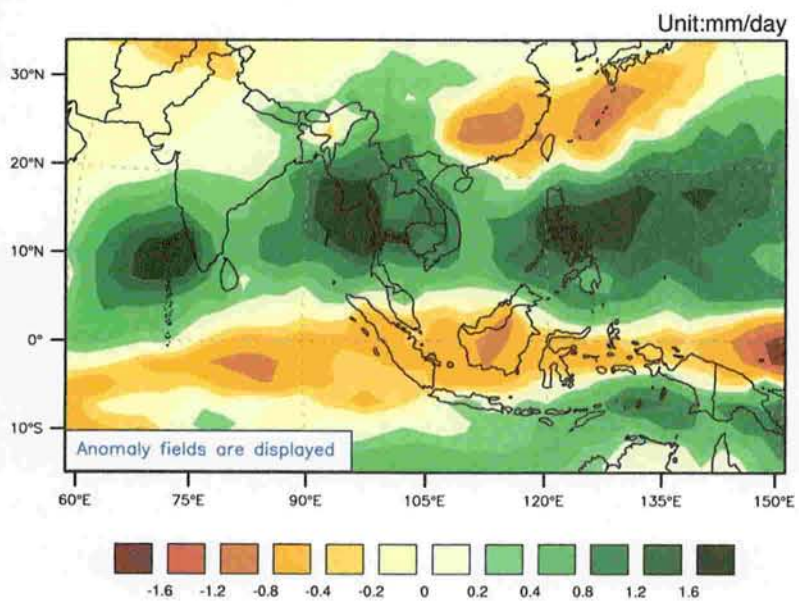
Precipitation for APR 2021



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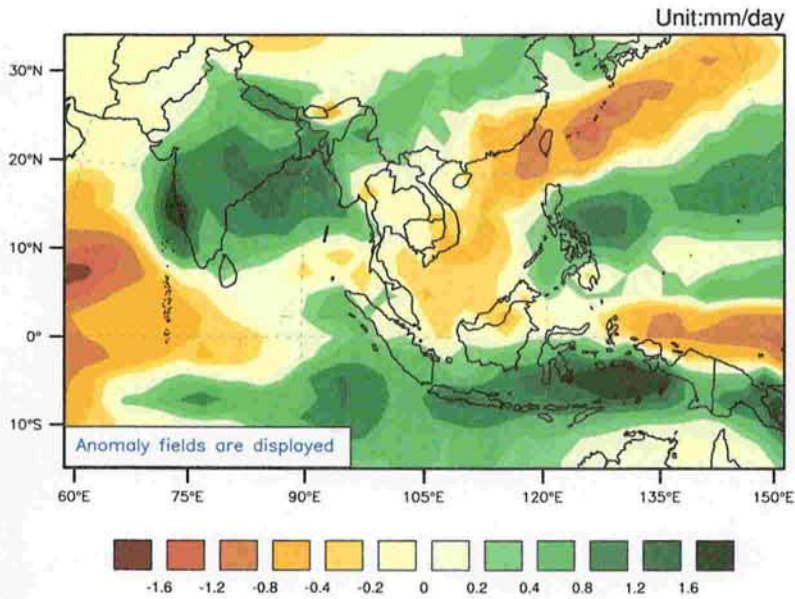
Precipitation for MAY 2021



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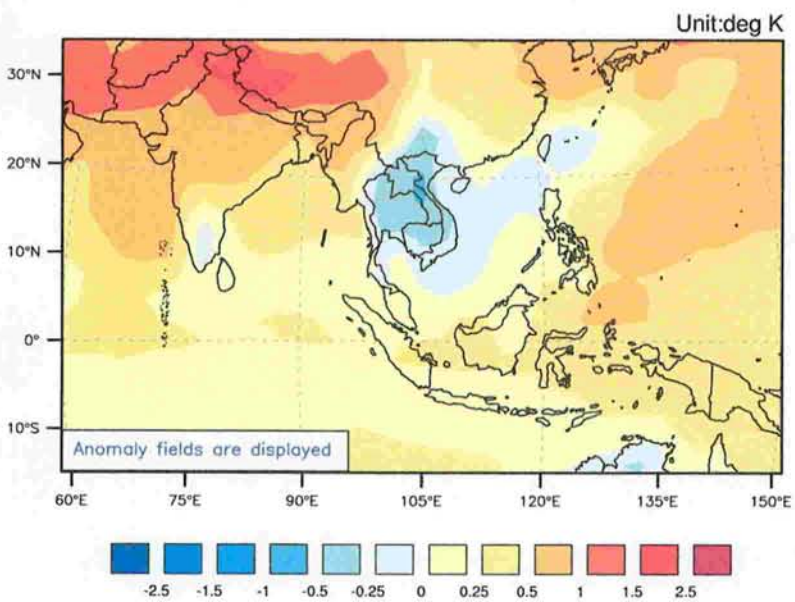
Precipitation for JUN 2021



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Temperature at 2m for APR 2021

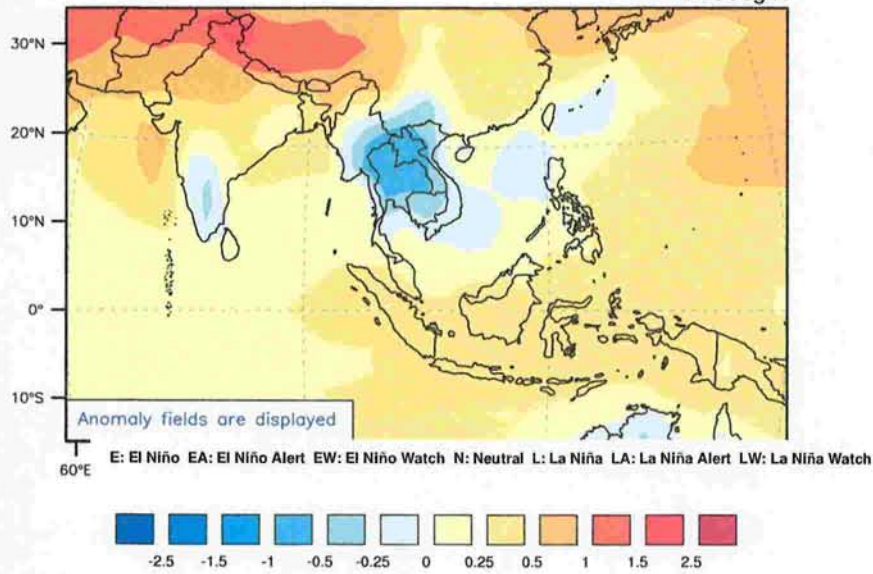


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Temperature at 2m for MAY 2021

Unit:deg K

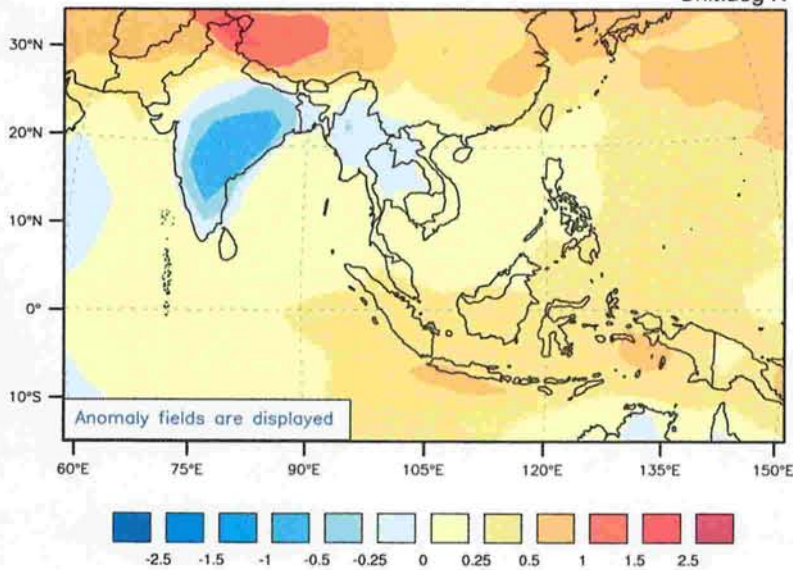


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Temperature at 2m for JUN 2021

Unit:deg K



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